Um:

Each

Dart Aerospace Ltd. Thursday, 06/11/2008 2:04:14 PM Date: Linda Lacelle User: **Process Sheet** Customer : CU-DAR001 Dart Helicopters Services : 6" MIRROR **Drawing Name** Job Number : 43235 **Estimate Number** : 10101 P.C. Number **Part Number** : D2011101 : 06/11/2008 S.O. No. : : D2011 REV G This Issue **Drawing Number** : N/A Prsht Rev. : NC **Project Number** : G : 06/11/2008 **PURCHASED PARTS** First Issue Type **Drawing Revision Previous Run** : 40739 Material : 13/11/2008 Qty: **Due Date** Written By Checked & Approved By Comment 04.09.15 Added Steps 5-7 KJ/JLM : Est: J Est: K 05.12.15 chg black sikaflex for white EC Est L 08.11.06 new drawing EC verify: DD **Additional Product** Job Number: Seq. #: **Machine Or Operation:** Description: 1.0 PURCHASING PG Comment: PURCHASING 2.0 CHM10601 Mirror 6" LOB/11/06 Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s) Mirror 6" 3.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Recieive & Inspect for Transit Damage Ensure Material Release Note is attached 4.0 QC6 DIMENSIONAL CHECK

Threaded Stud

30.0000 Each(s)

B4325

Total:

Comment: DIMENSIONAL CHECK

Threaded Stud

1.0000 Each(s)/Unit

D2829

Comment: Qty.:

5.0

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE			Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
					- 1							
					*							
										į		
-												
Part No):	PAR #:	Fault Category	/:	NC	R: Yes	No DQ	A :	Date: _			
	Re	esolution:	Disposition:		QA	: N/C C	losed:		Date: _			

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification		A				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector			
				0							
						, **					
				y							
						-1	3				
				•							
NOTE: D	ate & initial a	Il entries									

Date: Thursday, 06/11/2008 2:04:14 PM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: 6" MIRROR Job Number: 43235 Part Number: D2011101 Job Number: Seq. #: **Machine Or Operation:** Description: 6.0 D30141 Locknut Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s) Locknut Pick: Qty Part Number Description Batch D3014-1 Lock nut 7.0 AN960JD416L Comment: Qty.: 1.0000 Each(s)/Unit Total: 30.0000 Each(s) Washer Pick: **Qty Part Number** Description Batch AN960JD416L Washer 8.0 SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 1- Discard Hardware & Install new hardware loosely 2- Crimp stud as per Dwg D2011 9.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP 10.0 PACKAGING RESOURCE # Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 11.0 QC21 FINAL INSPECTION/W/O RELEASE Comment: FINAL INSPEC TION/W/O RELEASE Job Completion

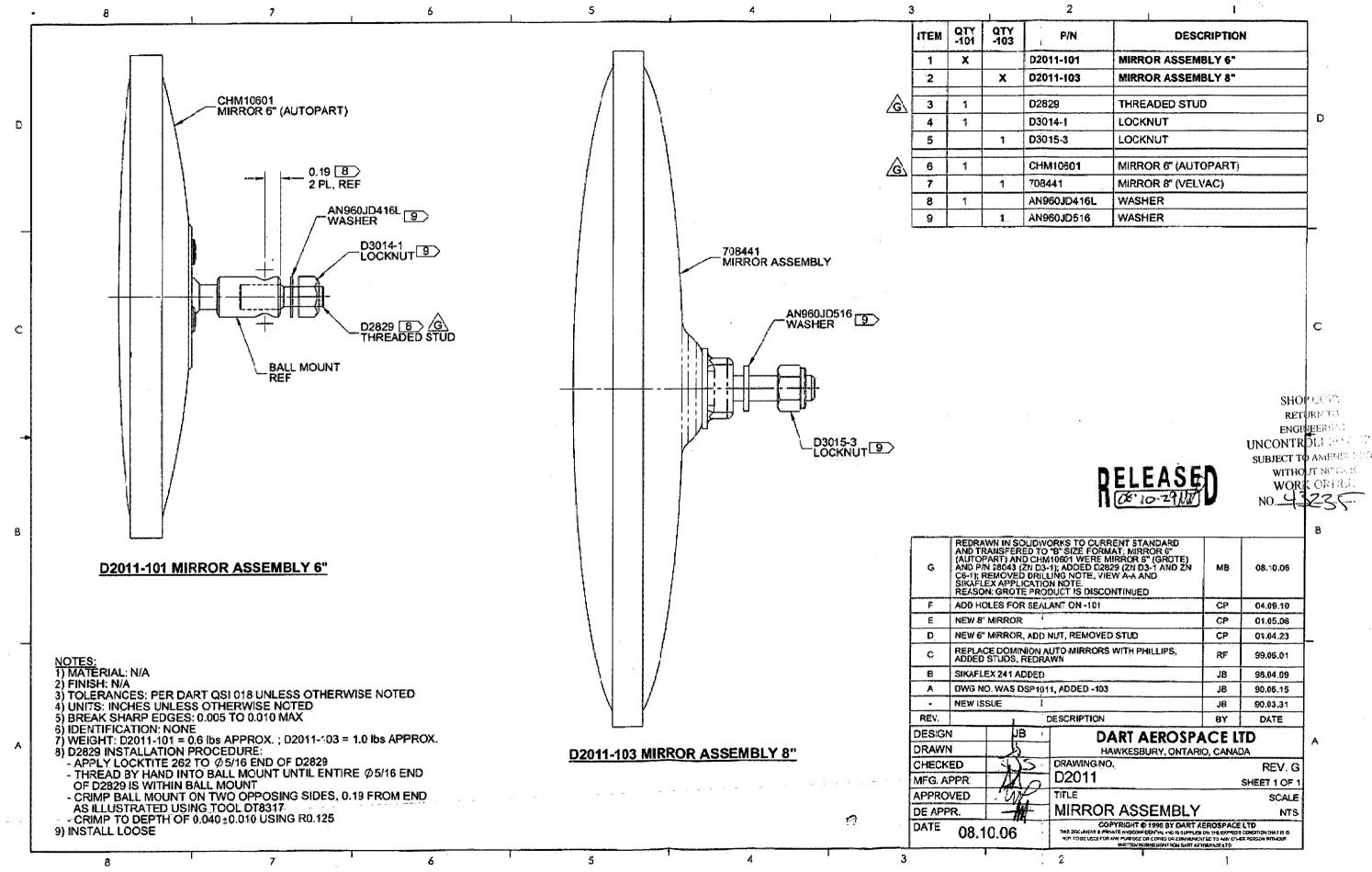
Form: rprocess

Page 2

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	ES			
DATE	STEP	PROCEDURE CHANGE				Date	Qty Approval Chief Eng / Prod Mgr	Approval QC Inspector
		1						
								,
Part No:		PAR #:	Fault Ca	legory:	NCR: Yes	No DQA:	Date:	A Starting and
	R	esolution:	Disposit	on:	QA: N/C C	osed:	Date: _	
NCR:			WORK OR	DER NON-CONFORMA	NCE (NCF	₹)		
DATE	STEP	Description of NC	Description of NC Corrective Action Section			Verificat		
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date		C Chief Eng	QC Inspector
					-			
						ļ		
				3.				
				·				
								•
								•

NOTE: Date & initial all entries



C

.



TRUCK PARTS • PIÈCES DE CAMION ENGINE MARINE • MOTEUR-MARINE PERFORMANCE PARTS • PIÈCES DE PERFORMANCE



1000 RUE LANDSD JWNE TEL: (613)632-1191 HAWKESBURY , ON K6A FAX: (613)632-2350 TVQ GST / TPS 10035 3366 RT0001 /be in effect July 1st 2008 New Untario Enviromental Protectica Fees www.stewardshipontarie.ca/mhsw More Anformation can be found at 113336 (613)632-5200 sydart Aerospace Lid. %1279 Aberdeen Sireel 11/14/08 DATE 7:54 SHIP 111 MLP SAME JAHAWKESBURY ON KEA-1K7 EXTENSION COST / COÛTANT LIST EACH / CHACUN D ESCRIPTION PART No / PIÈCES CODE ORD / COM SHIP / EXP 18.95 587.45 6 CONV. MIRROR, S/ CHM10601 31 TWD> 0.00 % £wd - 58425 PIECE: /CORE JONAL 0.00 31 SHIP VIA WOM. PST /TVO FRT / TRANS DISC ESC

SIGNATURE



Purchase Order

Date Nov 06, 2008 Page

Purchase Order Number PO00007526

Dart Aerospace Ltd 1270 Aberdeen St Hawksbury, Ontario K6A 1K7 Phone: (613)632-9577

Fax:

(613)632-1053



Vendor Address:

Auto Parts Extra 1000rue Lansdowne Hawkesbury, ON K6A 1H7 Canada Phone

(613) 632-1191 (613) 632-2350

Fax

Ship To:

Main Finished Goods Location Dart Aerospace Ltd

1270 Aberdeen St

Hawksbury, Ontario K6A 1K7

Reference	Contact	Vendor Number	PO Date	Terms	Ship Via	Expected Arrival	
		VC-AUT001	Nov 06, 2008	N30	yours	Nov 10, 2008	

Qty. Ordered	Item Number	Description	Expected Arrival	Drop- Ship	Unit Cost	UOM	Extended Price
	CHM10601 cor	Mirror 6" B43235 ments: AS PER DWG D201 P/N: CHM10601 B43235	10/11/2008 1 REV. G	No	18.950000	Each	587.45
			÷				
		CERTIFICAT REO'D U	E OF CONFO PON DELIVE	RMITY RY	·		
						÷	
			•				
		4			-3		
Comments:		Tax Summary: GST GSTME GSTND		29.37 0.00 0.00	Less: included tax Subtotal		0.00 587.45
		Entered By:	P CLAYOH	E	Total tax Total purchase of	order in	29.37
<u> </u>		Approved By:	V	······································	CAD Dollars		616.82

Eric Charbonneau

From:

David Shepherd [dshepherd@dartaero.com]

Sent:

November 18, 2008 2:55 PM

To:

'Eric Charbonneau'; 'Jason Murdoch'

Cc:

'David Duyal': 'Mike Petsche': 'Marc Bellavance': 'L Lacelle': 'Bill Beckett'

Subject:

RE: 6" mirror

Eric/Jason,

As discussed at the Engineering Mtg this morning, I am in agreement with Marc's 2nd opinion on the 6" mirror as outlined below. My recollection was that we started testing the 6" mirrors only when we found out the mirror faces were falling out in flight and we had to start gluing them in.

When I revewed the revised drawing, I noticed that the pull testing was being eliminated. It was my understanding that the new mirror has been tested several times and we don't have the same concern about mirror faces falling out. We currently do not test the 8" mirror at all. It is not general practice to pull something to limit load during production because it tends to weaken the part.

So, I think we should go lean and eliminate the 50 lb pull test on the mirrors.

David

PS. Having said this, mirrors will spontaneously start falling apart again in the air.

From:

Marc Bellavance [rtaero.com mailto:mbellavance@dartaero.com]

Sent:

Tuesday, November 18, 2008 6:43 AM

To:

'Eric Charbonneau'; 'Jason Murdoch'; 'David Shepherd'; 'Mike Petsche'

Cc:

'David Duval'

Subject: RE: 6" mirror

Come to think of it, and someone please correct me if I'm wrong, the purpose of the test on Rev. F was to ensure that the Sikaflex was holding the mirror to the housing.

With Rev. G, there is no more need for Sikaflex because the mirror passed the pull test and this is why the note has been removed.

I have agreed with Jason in a previous email but I'm changing my position on the basis of what led to the removal of the note.

Furthermore, we are not testing the -103 Mirror and for the same reason.

So I don't see why we need to do the pull test anymore.

Marc Bellavance

Mechanical Designer/Technical Support

DART aerospace Ltd.

Tel:

613-632-5200 Ext. 240

Fax:

613-632-9311

E-mail:

HYPERLINK "rtaero.com mailto:mbellavance@dartaero.com"mbellavance@dartaero.com

Web:

HYPERLINK "rtaero.com http://www.dartaero.com/"www.dartaero.com

From: Eric Charbonneau [rtaero.com mailto:echarbonneau@dartaero.com]

Sent: November 18, 2008 8:18 AM

To: 'Jason Murdoch'; 'David Shepherd'; 'Mike Petsche'

Cc: 'David Duval'; mbellavance@dartaero.com

Subject: RE: 6" mirror